

Appl. No. 10/029,663
Amdt date August 13, 2003
Reply to Office action of January 15, 2003

Amendments to the Specification:

Due to the number and nature of the amendments, a Substitute Specification showing the changes made to the immediate prior version pursuant to revised 37 C.F.R. 1.121 is submitted herewith to facilitate the prosecution of this application. Additionally, Applicant also submits herewith, a clean copy of the Substitute Specification pursuant to 37 C.F.R. § 1.125.

Applicant respectfully requests that the Substitute Specification with changes be entered in this case.



SUBSTITUTE SPECIFICATION
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OFFICE OF PETITIONS

1 41419/VG 622

CLEMATIS PLANT NAMED 'VANSO'

5 **CLASSIFICATION**

The present invention relates to a new Clematis plant.

VARIETY DENOMINATION

The new plant has the varietal denomination 'VANSO'.

10

BACKGROUND OF THE INVENTION

The present invention relates to a new Clematis plant having the varietal denomination 'VANSO'. 'VANSO' was discovered as a natural branch mutation of the variety 'MRS. CHALMONDELEY', not known to be patented.

15

SUMMARY OF THE INVENTION

The new variety is a Clematis plant with a climbing habit distinguished by production of fully double flowers. Asexual reproduction of the new variety as performed by softwood cuttings in Boskoop, The Netherlands has confirmed that the distinguishing characteristics of the new variety are transmitted through succeeding generations and asexually reproduced plants of the new variety reproduce true-to-type.

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COMPARISON WITH PARENT

The new variety differs from its parent, 'MRS. CHALMONDELEY', in producing flowers which are fully double; whereas flowers of the parent variety are single.

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BRIEF DESCRIPTION OF ILLUSTRATIONS

5 The accompanying illustrations depict plants of the new variety in color as true as possible in color photographic illustrations of this nature.

FIG. 1 shows the plant of the new variety with a cluster of flowers; and

10 FIG. 2 shows a close up of the flower of the new variety.

DETAILED DESCRIPTION OF THE NEW VARIETY

The following is a description of the new variety taken from 2-year-old plants grown out-of-doors in 5 liter containers in Boskoop, The Netherlands during the month of June. Color designations used herein are from THE ROYAL HORTICULTURAL SOCIETY COLOUR CHART ("RHSC").

PLANT

20 The plant grows in a climbing habit and attains a height of slightly more than 2 M. with an average diameter of about 35 cm. and with vigorous growth.

FOLIAGE

25 Size: About 5 cm. to 8 cm. long and up to about 4.8 cm. wide.

Quantity: About 6 leaves (3 pairs of opposite leaves) per about 15 cm. stem.

Leaf

30 Average length: About 15.3 cm.

Average width: About 9.3 cm.

Average length of leaflets: About 5 to 8 cm.

35 Average width of leaflets: About 2.7 to 4.8 cm.

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Leaflet apex: Apiculate
Leaflet base: Attenuate to acuminate
5 Average petiole
length: About 7.5 cm.
Average petiole
width: About 2 mm.
Color
10 Immature foliage
Upper side: Between 141A and 143A
Underside: Between 146A and 146B
Mature foliage
Upper side: Near 137A
15 Under side: Between 137B and 137C
Shape: Trifoliolate - leaflets are ovate
to narrow ovate
Texture
Upper side: Smooth
20 Under side: Smooth
Venation: Anastomosing
Edge: Smooth with no serration
observed.
Petiole color
25 Top surface: Near 166A
Under side: Between 143A and 141B
Stipules: No stipples observed
Auricles: No auricles observed
Rachis: Smooth
30
STEM
Average length: About 90 cm.
Average width: About 3 mm.
Texture: Smooth, slightly glossy
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Aspect: Ribbed lengthways with an average
of 6 ribs

5 Average internode
length: About 12.6 cm.

Color of young stem: Near 143A to 143C to 144A

WOOD

10 Color: Color of new wood near 143A and
143C to 144A; color of old wood
near 175A to 175B

Bark: Bark has short pale greyish hairs

15

FLOWER: Not for use as a cut flower

Color: Clear blue double flowers

Shape of buds: Ovate

Average length of buds: About 2.4 cm.

20 Average width of buds: About 1.4 cm.

Color of buds: Near 145A, with lighter axial
stripes; near 145D

Average number of
flowers and buds

25 per plant per season: 7

Flower shape: Round

Average flower
diameter: About 16.1 cm.

Average flower depth: About 6.7 cm.

30 Fragrance: Very faint, sweet

Tepals

Average number: 6 (occasionally 7 or 8)

Average length: About 8 cm.

Average width: About 4.9 cm.

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Shape: Obovate
Apex: Mucronulate
5 Base: Cuneate
Margin: Entire
Color of tepal
when young
Upper side: Violet-blue; near 92A, tip and
10 central band near the tip near
71B to 71C
Under side: Violet-blue; near 90D, with a
broad central band near 145C to
15 145D (with a slight touch of
violet-blue)
Color of tepal
when mature
Upper side: Violet-blue; near 91B with a
lighter center near 91D and a
20 small blotch near 71C to 71D at
the tip
Under side: Violet-blue; near 91C; margins
darker; near 91B and a broad
central band near 145C to 145D
25 Petaloids: The flowers have no sepals,
only petaloids
Average number: About 325
Average length: About 4.2 cm.
Average width:
30 Outer
(wider): About 1.8 cm.
Inner
(Narrower): About 4.5 mm.

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Shape

Outer: Obovate

5 Inner: Linear

Apex

Outer: Rounded to praemorse

Inner: Acute

Base: Cuneate

10 Margin: Entire

Color when young

Upper side: Outer petaloids violet-blue near
92A; tip violet near 86B; inner
petaloids violet near 86B to 86C

15 Under side: Outer petaloids violet-blue near
90D, with a broad central band
near 145C to 145D; inner
petaloids violet-blue near 91D

20 Color when mature

Upper side: Outer petaloids violet-blue near
91A with a lighter center near
91B to 91C; inner petaloids
violet-blue near 92A

25 Under side: Outer petaloids violet-blue near
91C to 91D, margins darker near
91B and a central blotch near
145D; inner petaloids violet-blue
near 91D

30 Average flower

lastingness of

individual flower: 20 days

Time to produce

a flowering plant: 12 months

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Natural flowering
season:

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June to September in Boskoop,
The Netherlands

Flowers completely double; all reproductive organs transformed into petaloid. No pollen is formed, no stigmas present, no seed is produced.

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WINTER HARDINESS:

Winter hardy in USDA Zone 5

RESISTANCE TO DISEASE:

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No more susceptible to disease than its parent variety or other similar varieties.

BREEDING:

20

Asexual reproduction was started from softwood cuttings during the summer months in tunnels. Natural mutation was observed when one branch of the parent variety flowered with double flowers. This mutation branch was then propagated by softwood cuttings.

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STAMENS, FILAMENTS & ANTHERS

Arrangement:

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Flowers are completely double, so no stamens, styles, etc. are visibly present. No seed formation observed.

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I CLAIM:

5 A new Clematis plant of the variety substantially as shown
and described.

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CLEMATIS PLANT NAMED 'VANSO'

5 ABSTRACT

Described as a new variety of Clematis which produces fully
doubled flowers of attractive coloration.

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CLEMATIS PLANT NAMED 'VANSO'

LATIN NAME OF GENUS

The botanical classification of the new Clematis plant is *Clematis* hybrid.

5 VARIETY DENOMINATION

The new plant has the varietal denomination 'VANSO'.

BACKGROUND OF THE INVENTION

The present invention relates to a new Clematis plant having the varietal denomination 'VANSO'. 'VANSO' was discovered
10 as a natural branch mutation of the variety 'MRS. CHALMONDELEY', not known to be patented.

SUMMARY OF THE INVENTION

The new variety is a Clematis plant with a climbing habit distinguished by production of fully double flowers. Asexual
15 reproduction of the new variety as performed by softwood cuttings in Boskoop, The Netherlands has confirmed that the distinguishing characteristics of the new variety are transmitted through succeeding generations and asexually reproduced plants of the new variety reproduce true-to-type.

20 COMPARISON WITH PARENT

The new variety differs from its parent, 'MRS. CHALMONDELEY', in producing flowers which are fully double; whereas flowers of the parent variety are single.

BRIEF DESCRIPTION OF ILLUSTRATIONS

25 The accompanying illustrations depict plants of the new variety in color as true as possible in color photographic illustrations of this nature.

FIG. 1 shows the plant of the new variety with a cluster of flowers; and

FIG. 2 shows a close up of the flower of the new variety.

DETAILED DESCRIPTION OF THE NEW VARIETY

5 The following is a description of the new variety taken from 2-year-old plants grown out-of-doors in 5 liter containers in Boskoop, The Netherlands during the month of June. Color designations used herein are from THE ROYAL HORTICULTURAL SOCIETY COLOUR CHART ("RHSC"). The age of the plants used for
10 the description is 2 years and were grown in 5 litre containers.

PLANT

The plant grows in a climbing habit and attains a height of slightly more than 2 M. with an average diameter of about 35 cm. and with vigorous growth.

15 FOLIAGE

Size: About 5 cm. to 8 cm. long, up to about 4.8 cm. wide; diameter approximately 35 cm.

Quantity: About 6 leaves (3 pairs of opposite leaves) per about 15 cm. stem.
20

Leaf

Average length: About 15.3 cm.

Average width: About 9.3 cm.

25 Average length of leaflets: About 5 to 8 cm; average about 6.2 cm.

Average width

of leaflets: About 2.7 to 4.8 cm; average about 3.2 cm.
30

	Leaflet apex:	Apiculate
	Leaflet base:	Attenuate to acuminate
	Average petiole length:	About 7.5 cm.
5	Average petiole width:	About 2 mm.
	Color	
	Immature foliage	
	Upper side:	Between R.H.S.-CC 141A and 143A
10	Underside:	Between R.H.S.-CC 146A and 146B
	Mature foliage	
	Upper side:	Near 137A
	Under side:	Between R.H.S.-CC 137B and 137C
	Shape:	Trifoliolate - leaflets are ovate to narrow ovate
15		
	Texture	
	Upper side:	Smooth
	Under side:	Smooth
	Venation:	Anastomosing
20	Edge:	Smooth with no serration observed.
	Petiole color	
	Top surface:	Near 166A
	Under side:	Between R.H.S.-CC 143A and 141B
25	Stipules:	No stipules observed
	Auricles:	No auricles observed
	Rachis:	Smooth
	STEM	
	Average length:	About 90 cm.
30	Average width:	About 3 mm.
	Texture:	Smooth, slightly glossy

	Aspect:	Ribbed lengthways with an average of 6 ribs
	Average internode length:	About 12.6 cm.
5	Color of young stem:	Near R.H.S.-CC 143A to 143C to 144A
WOOD		
10	Color:	Color of new wood green to yellow green - near R.H.S.-CC 143A and 143C to 144A; color of old wood greyed-orange - near R.H.S.-CC 175A to 175B
15	Bark:	Bark has short pale greyish hairs
FLOWER:		
	Color:	Clear blue double flowers
	Shape of buds:	Ovate
20	Average length of buds:	About 2.4 cm.
	Average width of buds:	About 1.4 cm.
	Color of buds:	Yellow-green, near R.H.S.-CC 145A, with lighter axial stripes near R.H.S.-CC 145D.
25	Average number of flowers and buds per plant per season:	7
	Flower shape:	Rotate
30	Average flower diameter:	About 16.1 cm.
	Average flower depth:	About 6.7 cm.

Fragrance: Very faint, sweet

Tepals

Average number: 6 (occasionally 7 or 8)

Average length: About 8 cm.

5 Average width: About 4.9 cm.

Shape: Obovate

Apex: Mucronulate

Base: Cuneate

Margin: Entire

10 Color of tepal
when young

Upper side: Violet-blue; near R.H.S.-CC 92A,
tip and central band near the tip
near R.H.S.-CC 71B to 71C

15 Under side: Violet-blue; near R.H.S.-CC 90D,
with a broad central band near
R.H.S.-CC 145C to 145D (with a
slight touch of violet-blue)

20 Color of tepal
when mature

Upper side: Violet-blue; near R.H.S.-CC 91B
with a lighter center near
R.H.S.-CC 91D and a small blotch
near R.H.S.-CC 71C to 71D at the
tip

25 Under side: Violet-blue; near R.H.S.-CC 91C;
margins darker; near R.H.S.-CC
91B and a broad central band near
R.H.S.-CC 145C to 145D

30 Tepaloids:

Average number: About 325

	Average length:	About 4.2 cm.
	Average width:	
	Outer	
	(wider):	About 1.8 cm.
5	Inner	
	(Narrower):	About 4.5 mm.
	Shape	
	Outer:	Obovate
	Inner:	Linear
10	Apex	
	Outer:	Rounded to praemorse
	Inner:	Acute
	Base:	Cuneate
	Margin:	Entire
15	Color when young	
	Upper side:	Outer tepaloids violet-blue near R.H.S.-CC 92A; tip violet near R.H.S.-CC 86B; inner tepaloids violet near R.H.S.-CC 86B to 86C
20	Under side:	Outer tepaloids violet-blue near R.H.S.-CC 90D, with a broad central band near R.H.S.-CC 145C to 145D; inner tepaloids violet-blue near R.H.S.-CC 91D
25	Color when mature	
	Upper side:	Outer tepaloids violet-blue near R.H.S.-CC 91A with a lighter center near R.H.S.-CC 91B to 91C; inner tepaloids violet-blue near R.H.S.-CC 92A
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variety flowered with double flowers. This mutation branch was then propagated by softwood cuttings.

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STAMENS, FILAMENTS & ANTHERS

Arrangement:

Flowers are completely double, so no stamens, styles, etc. are visibly present. No seed formation observed.

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